

**THAT WHICH IS CLAIMED IS:**

1. In a vehicle washing system having washing, rinsing and waxing functions,  
the improvement comprising:
  - a) a coating application apparatus constructed and arranged to apply a  
coating formulation onto a vehicle; and
  - b) a water sheet application apparatus constructed and arranged to apply a  
continuous sheet of water onto the coating applied to the vehicle to  
thereby create a coating solution and to evenly disperse the coating  
formulation on the vehicle.
2. The vehicle washing system of **Claim 1**, wherein said water sheet application  
apparatus further includes a chemical injection device to inject a carnauba wax  
emulsion into said water supply.
3. The vehicle washing system of **Claim 1**, wherein said water sheet application  
apparatus includes a tank structure, a water supply and a weir attached to said  
tank structure, said weir being disposed at a predetermined angle.
4. The vehicle washing system of **Claim 3**, wherein said water sheet application  
apparatus further includes a water heater for providing to said tank structure  
water heated to a range of approximately 100-150 °F (38-66 °C).
5. The vehicle washing system of **Claim 4**, wherein said weir is disposed at  
angle range between 15 and 20° with respect to a horizontal plane and wherein

said water sheet application apparatus dispenses between 5 to 15 gallons (18.9-56.8 liters) of water per application.

6. The vehicle washing system of **Claim 5**, wherein said water sheet application apparatus further includes a chemical injection device to inject a surfactant, a dye and an optical brightening agent into said water supply.
7. The vehicle washing system of **Claim 1**, wherein said coating application apparatus has a surface reactive silicone spray dispenser.
8. The vehicle washing system of **Claim 1**, wherein said tank has opposing sides and wherein a water inlet is disposed in each said side.
9. The vehicle washing system of **Claim 8**, wherein a pipe extends between said opposing sides within said tank and wherein said pipe has a plurality of slots spaced in the bottom thereof.
10. The vehicle washing system of **Claim 9**, wherein said tank has a trapezoidal cross-sectional configuration.
11. A process for applying a coating on a vehicle comprising:
  - a) applying a liquid coating formulation onto a vehicle; and
  - b) applying a heated waterfall over the liquid coating formulation applied to the vehicle.

12. The process of **Claim 11**, further comprising injecting a carnauba wax emulsion into said heated waterfall.
13. The process of **Claim 12**, wherein said liquid coating formulation is a surface reactive silicone formulation and wherein said liquid coating formulation is sprayed onto the vehicle and further comprising injecting a dye into said heated waterfall.
14. The process of **Claim 11**, wherein said liquid coating formulation is heated and wherein said heated waterfall is applied at a temperature between approximately 100 and 150 °F (38-66 °C).
15. The process of **Claim 11**, further comprising washing, rinsing and drying the vehicle.
16. A vehicle washing system having a plurality of stations comprising:
- a) a liquid formulation dispensing station; and
  - b) a waterfall dispensing station constructed and arranged to dump a generally continuous sheet of water onto a vehicle.

17. The vehicle washing system of **Claim 16**, wherein said liquid formulation dispensing station is in communication with a detergent source.